AMENDMENT TO THE ABSTRACT OF THE DISCLOSURE

Delete the Abstract of the Disclosure and replace with the following:

-- ABSTRACT OF THE DISCLOSURE

A fail-safe torque transducer system, and an automotive power steering torque sensor system employing the same, utilizing a two-stage series coupled torsion bar system. The A first stage torsion bar is used to provide low torsion rate tuning of the steering system, and by reducing its diameter relative to the second stage, provides a lower torsional spring rate and higher operational stress level than that of the second stage. The second stage torsion bar is larger in diameter than the first and provides the stress/strain indicia referenced by the a torque-measuring device. The second stage torsion bar, and being stiffer and larger in diameter, is stressed at a lower level than the first stage. The second stage bar and therefore has a higher cycle life than that of the first stage bar. Moreover Hence, if stress related failure ever occurs, it will only occur in the first stage torsion bar, Any failure of the first stage will prevent thereby preventing any torque from reaching the second stage, thereby causing a zero strain signal and thus rendering the system fail-safe and not subject to instability of vehicle steering if the torsion bar breaks.--